



DEPARTMENT OF THE NAVY  
SPACE AND NAVAL WARFARE SYSTEMS COMMAND  
WASHINGTON, D.C. 20363-5100

SPAWARINST 5420.22  
SPAWAR 33-1  
27 December 1991

SPAWAR INSTRUCTION 5420.22

From: Commander, Space and Naval Warfare Systems Command

Subj: SPAWAR SYSTEMS ENGINEERING BOARD (SSEB) ESTABLISHMENT

Ref: (a) SPAWAR memo Ser PD 50T/233 of 22 Dec 89  
(b) Operating Agreement, SPAWAR/PEO-SCS of 16 Aug 90

Encl: (1) SSEB Organization Chart

1. Purpose. To permanently establish the SPAWAR Systems Engineering Board (SSEB), and to define the duties and responsibilities of Board members.

2. Background. Reference (a) established the SPAWAR Systems Engineering Board (SSEB) to promote intra-SPAWAR communication and cooperation and improve the total systems engineering and integration of Command programs. The primary responsibility of the Board is to develop systems engineering policy and act as the Command's Technical Review Board to deliberate and decide on issues that require Command attention, establish and task working groups, act on recommendations from the working groups, provide support to PEO in accordance with reference (b), and oversee implementation. The SSEB reports directly to the SPAWAR Vice Commander. Initial board member selections were based on their subject matter expertise and their lead technical position within their parent organization.

3. Policy. The objective of the SSEB is to establish, maintain and promote effective, coordinated systems engineering across all SPAWAR programs and products as a disciplined process.

a. The SSEB shall recognize and determine the total warfare systems' compatibility and interoperability requirements; determine the proper technology usage; define end-to-end performance and functionality requirements; and ensure adherence to standards.

b. Systems engineering shall be given maximum attention at the SSEB level to ensure that the Command executes its charter effectively, applies resources efficiently, and is responsive to the Fleet and OPNAV requirements. The development of systems and equipment to satisfy Operational Requirements (ORs) and engineering definition of requirements shall be accomplished in a coordinated manner in order to maximize the benefits of new system developments.

c. The SSEB, through the SPAWAR Space and Electronic Warfare (SEW) Systems Engineer, shall establish a coordinated system engineering process to integrate the individual Program Directorate's efforts.

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d. The SSEB shall serve as Senior Advisory Board to the SEW Systems Engineer in the discharge of his/her duties relative to the implementation of the COPERNICUS Architecture, its component pillars and its internal system interfaces.

e. Technical working groups shall be formed at the direction of the SSEB to investigate assigned topics, develop solutions and make resultant information available to all Program Directors and Directorates. The technical working group and SSEB involvement is essential in identifying issues, defining solutions, and proposing actions that comply with the Navy chartered plan for future warfare and support systems.

4. Membership. Membership of the SSEB and the working groups will be drawn from existing SPAWAR Program Directorate resources. Financial resources required to provide staff and technical support to the SSEB and the technical working groups will be provided by the individual PDs or PMWs involved with the program and technical issue under review.

5. Duties and Responsibilities

a. The SPAWAR Vice Commander, SPAWAR 09, shall be the SSEB Chairman. In addition, SPAWAR 09 shall preside as the Chairman of the Force Warfare Systems Engineering Board (FWSEB) discussing and resolving mutual systems engineering issues with other Systems Commands (SYSCOMs), Program Executive Officers (PEOs) and Direct Reporting Program Managers (DRPMs).

b. The Director of the Naval Warfare System Architecture and Engineering Directorate, SPAWAR 30, shall be represented by his/her Technical Director, SPAWAR 30T, and the SPAWAR SEW Systems Engineer, SPAWAR 32. In addition, SPAWAR 32 shall also serve as the SSEB Vice Chairman and be responsible for systems engineering oversight within the Command. His associated duties and responsibilities are the coordination of systems engineering issues with other SYSCOMs, PEOs and DRPMs through the Force Warfare Systems Engineering Board (FWSEB) and other working groups. SPAWAR 32 shall provide secretariate support to the SSEB.

c. The Director of the Information Transfer Systems Program Directorate, PD 50, or his/her Technical Director or representative shall serve as the Board member responsible for keeping the SSEB apprised of current information transfer systems developments and information security (INFOSEC) efforts and issues.

d. The Director of Information Management Systems Program Directorate, PD 60, or his/her Deputy or Technical Director shall serve as the Board member responsible for keeping the SSEB apprised of current information management and space and sensor systems efforts and issues.

e. The Director of the Marine Corps Systems Program Directorate, PD 70, or his/her representative shall serve as the Board member responsible for keeping the SSEB apprised of USMC C4I efforts and issues that should be addressed by the Board.

f. The Director of the Undersea Warfare Program Directorate, PD 80, or his/her Technical Director or Systems Engineer shall serve as the Board member responsible for keeping the SSEB apprised of current undersea warfare systems efforts and issues.

g. The Assistant Commander For Space Technology, SPAWAR 40, or his/her Technical Director shall serve as the Board member responsible for keeping the SSEB apprised of current space technology efforts and issues.

h. The Director for Technology, Acquisition, Logistics and Engineering Support Directorate, SPAWAR 20, or his/her appointed senior representative shall serve as a Board member for acquisition and logistics support and coordinator for the SPAWAR 20 technology and engineering support functions required by the SSEB. This support shall include:

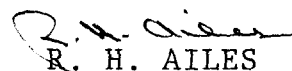
Technology: Computers, communications, devices and sensors.

Engineering: Computer Systems' Open System Architecture (OSA), Policy and Standards, and Electromagnetic Environmental Effects (E3).

i. The Commander, Navy Command, Control and Ocean Surveillance Center (NCCOSC) or his/her representative shall serve as a Board member responsible for keeping the SSEB apprised of issues affecting program implementation and providing liaison between Headquarters and NCCOSC on SSEB matters not explicitly covered in existing PD/PMW activities at NCCOSC.

6. The Program Executive Officer for Space, Communications and Sensors, PEO-SCS, or his/her Technical Representative will participate as an SSEB member and keep the SSEB apprised of current space, communications and sensors issues within the PEO purview.

7. Action. All SPAWAR headquarters and its activities affected by this instruction shall implement the policies and procedures provided by this instruction.



R. H. AILES  
Rear Admiral, U.S. Navy

Distribution:

SPAWAR List 5

SNDL PART II:

A1A (SECNAV)

A3 (CNO)

C20C (NRL)

C580 (NCTC)

# SPAWAR SYSTEMS ENGINEERING BOARD ORGANIZATION

